

NWS FORM E-19 (COVER)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

REPORT ON RIVER GAGE STATION

REVISED, PRINTED DATES: 04/08/2010, 08/22/2010

LOCATION: KIRWIN DAM
STREAM: ON KIRWIN RESERVOIR
BASIN: SOLOMON 12 HSA: GID

REFERENCES:

NWS E-19 9/5/1999
STATION DESCRIPTION USGS 01/06/1999
USGS STATION DESCRIPTION - 1/28/02

ABBREVIATIONS:

BM - bench mark	EPA - Environmental Protection Agency
DS - downstream	IBWC - International Boundary and Water Comm.
US - upstream	MSRC - Mississippi River Commission
HW - high water	MORC - Missouri River Commission
LW - low water	NOAA - National Oceanic and Atmospheric Admin.
RB - right bank	NOS - National Ocean Survey
LB - left bank	NWS - National Weather Service
MGL - mean gulf level	TVA - Tennessee Valley Authority
MLW - mean low water	USACE - U.S. Army Corps of Engineers
MSL - mean sea level	USBR - U.S. Bureau of Reclamation
MLT - mean low tide	USGS - U.S. Geological Survey
MT - mean tide	USWB - U.S. Weather Bureau
WQ - water quality	NGVD - National Geodetic Vertical Datum
RM - reference mark	NAD - North American Datum
RP - reference point	

LOCATION IDENTIFICATION: KRWK1
NWS INDEX NUMBER: 14-4357-2
USGS NUMBER: 06871700

MAP OF GAGE LOCATION

LATITUDE: 39 39 49
LONGITUDE: 99 07 29

SOURCE: USGS STATION DESCRIP

LOCATION: ON KIRWIN RESERVOIR AT KIRWIN DAM, KS
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Revised, Printed Dates: 04/08/2010, 08/22/2010
NWS FORM E-19 PAGE 1: GAGE MAP

BENCHMARKS

ELEVATION OF GAGE ZERO:
LEVELING AGENCY AND DATE:
RATING AGENCY:

VERTICAL DATUM: SEA LEVEL
CHECKBAR: 0.000

BENCHMARK	DESCRIPTION	GAGE ZERO	DATUM
BM1	BM-1 IS AN INVERTED PLUMBBOB IN CONCRETE IN 4 INCH PIPE, 2 FT ABOVE GROUND 390 FT SOUTHWEST OF SOUTHERN FENCE POST AT SOUTH SPILLWAY GATE CONTROL AREA AND 133 FT WEST OF ROCK RIPRAP ON FACE OF DAM.		1769.480
MP12	FENCE POST AT WATERS EDGE, 30 FT EAST OF TREE LINE		1715.120
MP13	LAG BOLT IN WILLOW TREE.		1718.100
MP16	A CHISLED SQUARE AT SEAM 60 FT WEST (UPSTREAM) OF FACE OF SPILLWAY AND 77 FT NORTH OF CONCRETE SLAB (SOUTHWEST CORNER) ON LOWER LEVEL OF FIRST NEARLY LEVEL PORTION OF APRON.		1749.990
MP17	STEEL FENCE POST 10FT UPSTREAM OF ROCK RIP RAP ON RIGHT BANK NEAR SPILLWAY.		1733.447
MP18	FENCE POST.		1736.689
MP20	3/8 INCH LAG BOLT APPROXIMATELY 150 FT NW OF MP19.		1726.692
MP21	3/8 INCH LAG BOLT APPROXIMATELY 40 YARDS NORTH OF ROAD.		1729.204
MP22	3/8 INCH LAG BOLT APPROXIMATELY 122 YARDS NORTH OF ROAD.		1723.917

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NWS FORM E-19 PAGE 2: BENCHMARKS

GAGES

DCP

TELEM

NESS ID: 348C06F2
OWNER: USBR
REPORT TIME: 0038
INTERVAL: 60
CRITERIA: old id 346d6464

TYPE OF TELEMETRY:
OWNER:
PHONE NUMBER:
INTERVAL:

PAYOR/COST OF LINE: / \$

GAGE TYPE	OWNER	MAINTENANCE	BEGAN	ENDED	GAGE LOCATION/REMARKS
bubble	USBR	USBR	09/19/1955	07/10/1996	STEVENS GRAPHIC RECORDER GEARED TO AN EIGHTY FOOT FLUID MANOMETER.
bubble	USBR	USBR	07/10/1996		INSTALLED A H-350 FLUID TRANSDUCER AND SUTRON 8200 DATA LOGGER/TRANSMITTER TO REPLACE MANOMETER AND GRAPHIC RECORDER.

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NWS FORM E-19 PAGE 3: GAGES

HISTORY

PUBLICATION/LOCATION OF RECORDS	STARTING DATE	ENDING DATE
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TYPE OF GAGE	OWNER	STARTING DATE	ENDING DATE
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bubble	USBR	09/19/1955	07/10/1996
bubble	USBR	07/10/1996	

ZERO ELEVATION	STARTING DATE
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NWS FORM E-19 PAGE 4: HISTORY

CRESTS

FLOOD STAGE: ACTION STAGE: BANKFULL STAGE: 0.00
 FLOOD FLOW: 0 ACTION FLOW:

DATE OF CREST	TIME LST	CREST (ft)	FLOW (CFS)	FROM HIGH WATERMARKS	BASED ON OLD DATUM	CAUSED BY ICE JAM	REMARKS

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 ID: KRWK1 HSA: GID

Revised, Printed Dates: 04/08/2010, 08/22/2010
 NWS FORM E-19 PAGE 5: CRESTS

LOW WATER RECORDS

DATE OF LOW WATER	STAGE (ft)	FLOW (CFS)	REMARKS
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NWS FORM E-19 PAGE 6: LOW WATER

CONDITIONS AFFECTING FLOW

MILES ABOVE MOUTH: 67.8 DRAINAGE AREA: 1367.0 POOL STAGE: 0.0

STREAM BED: NA

REACH: NA

REGULATION: KIRWIN RESERVOIR IS A REGULATORY STRUCTURE. MINOR RELEASES INTO THE RIVER CHANNEL ARE MADE THROUGH THE RIVER OUTLET STRUCTURE. MAJOR RELEASES TO LOWER THE FLOOD CONTROL POLL ARE MADE THROUGH THE SPILLWAY GATES.

DIVERSION: NA

WINTER: NA

TOPOGRAPHY: SURROUNDING AREA IS LOW ROLLING HILLS.

REMARKS: SOME WATER IS DIVERTED TO IRRIGATION INTERESTS THROUGH THE RIVER OUTLET STRUCTURE DIRECTLY INTO THE HEAD OF KIRWIN MAIN CANAL.

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NWS FORM E-19 PAGE 7: CONDITIONS

DAMAGE

STAGE	AREAS AFFECTED
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NWS FORM E-19 PAGE 8: DAMAGE

RIVER STAGE DATA

REACH: NA

ELEVATION ZERO: nan

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NWS FORM E-19 PAGE 9: STAFF

CONTACTS

SQ	CONTACT/REMARKS	PHONE
1	DAM OPERATOR/OBSERVER	785-543-6622

VARIOUS OPERATORS WILL BE AT THE DAM AT ANY
GIVEN TIME. THE U.S. BUREAU OF RECLAMATION
MAINTAINS AND READS THE GAGE.

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NWS FORM E-19 PAGE 10: CONTACTS